

OpcSecurityPolicy Members

Namespace: Opc.UaFx

Assemblies: Opc.UaFx.Advanced.dll, Opc.UaFx.Advanced.dll

The [OpcSecurityPolicy](#) type exposes the following members.

Constructors

OpcSecurityPolicy(OpcSecurityMode)

Initializes a new instance of the [OpcSecurityPolicy](#) class using the [mode](#) specified to determine the according [Uri](#) and [Algorithm](#) of the configuration to represent.

C#

```
public OpcSecurityPolicy(OpcSecurityMode mode)
```

Parameters

[mode](#) [OpcSecurityMode](#)

One of the [OpcSecurityMode](#) members to define the mechanisms to secure the message exchange.

OpcSecurityPolicy(OpcSecurityMode, OpcSecurityAlgorithm)

Initializes a new instance of the [OpcSecurityPolicy](#) class using the [mode](#) and [algorithm](#) specified to determine the according [Uri](#) of the configuration to represent.

C#

```
public OpcSecurityPolicy(OpcSecurityMode mode, OpcSecurityAlgorithm algorithm)
```

Parameters

[mode](#) [OpcSecurityMode](#)

One of the [OpcSecurityMode](#) members to define the mechanisms to secure the message exchange.

[algorithm](#) [OpcSecurityAlgorithm](#)

One of the [OpcSecurityAlgorithm](#) members to define the algorithm to use for signing and message encryption (depending on the [mode](#) specified). Using the algorithm [Auto](#) results into an automatically determined value of the [Algorithm](#) property considering the [mode](#) specified. The [Algorithm](#) is set to [None](#) in case of the algorithm [Custom](#) is used.

OpcSecurityPolicy(OpcSecurityMode, Uri)

Initializes a new instance of the [OpcSecurityPolicy](#) class using the [mode](#) and [uri](#) specified.

C#

```
public OpcSecurityPolicy(OpcSecurityMode mode, Uri uri)
```

Parameters

[mode](#) [OpcSecurityMode](#)

One of the [OpcSecurityMode](#) members to define the mechanisms to secure the message exchange.

[uri](#) [Uri](#)

The absolute URI of the security policy configuration to use which identifies the [Algorithm](#) to use for signing and message encryption (depending on the [mode](#) specified).

Exceptions

[ArgumentNullException](#)

The [uri](#) is a null reference (Nothing in Visual Basic).

Fields

BaseUri

Provides the base URI used by all security policies to refer to the according [OpcSecurityAlgorithm](#) they use.

C#

```
public static readonly Uri BaseUri
```

Field Value

[Uri](#)

Properties

Algorithm

Gets the [OpcSecurityAlgorithm](#) used to encrypt messages using the current [OpcSecurityPolicy](#) configuration.

C#

```
public OpcSecurityAlgorithm Algorithm { get; }
```

Property Value

OpcSecurityAlgorithm

One of the members defined by the [OpcSecurityAlgorithm](#) enumeration or [Custom](#) in case there [Uri](#) does not refer to a known algorithm.

Level

Gets an ordinal value to order and classify the current [OpcSecurityPolicy](#) accordingly to others and their security configuration.

C#

```
public int Level { get; }
```

Property Value

Int32

A positive [Int32](#) to identify the most secure policy. The policy with the highest [Level](#) is also the most secure.

Mode

Gets the mechanism used to secure the message exchange using the current [OpcSecurityPolicy](#) configuration.

C#

```
public OpcSecurityMode Mode { get; }
```

Property Value

OpcSecurityMode

One of the members defined by the [OpcSecurityMode](#) enumeration. The value [Invalid](#) in case of an invalid [OpcSecurityPolicy](#) configuration.

Uri

Gets the URI which expresses the [Algorithm](#) used for message encryption using the current [OpcSecurityPolicy](#) configuration.

C#

```
public Uri Uri { get; }
```

Property Value

Uri

An instance of the [Uri](#) class which identifies the [Algorithm](#) used for message encryption.

Table of Contents

Constructors	1
OpcSecurityPolicy(OpcSecurityMode)	1
OpcSecurityPolicy(OpcSecurityMode, OpcSecurityAlgorithm)	1
OpcSecurityPolicy(OpcSecurityMode, Uri)	2
Fields	2
BaseUri	2
Properties	2
Algorithm	2
Level	3
Mode	3
Uri	3

